


 National Transportation Safety Board FACTUAL REPORT AVIATION		NTSB ID: DEN02LA081		Aircraft Registration Number: N5416	
		Occurrence Date: 07/24/2002		Most Critical Injury: None	
		Occurrence Type: Accident		Investigated By: NTSB	
Location/Time					
Nearest City/Place Two Buttes	State CO	Zip Code 81084	Local Time 0745	Time Zone MDT	
Airport Proximity: On Airport		Distance From Landing Facility:		Direction From Airport:	
Aircraft Information Summary					
Aircraft Manufacturer Grumman		Model/Series G-164A		Type of Aircraft Airplane	
Sightseeing Flight:			Air Medical Transport Flight:		
Narrative					
<p>Brief narrative statement of facts, conditions and circumstances pertinent to the accident/incident:</p> <p>On July 24, 2002, at 0745 mountain daylight time, a Grumman G-164A, N5416, was substantially damaged when the airplane ground-looped while landing at Doyle's Airfield, Two Buttes, Colorado. The commercial pilot, the sole occupant in the airplane, was not injured. The airplane was being operated by the pilot under Title 14 CFR Part 137. Visual meteorological conditions prevailed for the local aerial application flight which originated approximately 30 minutes before the accident. The pilot had not filed a flight plan.</p> <p>The pilot said that he was landing with a load of herbicide. During the landing roll, the airplane started to veer to the left. The pilot said he applied right rudder and right brake, but the airplane did not respond. The airplane ground looped to the left, and the right main landing gear separated from the airplane. He said all four wings appeared wrinkled, but the lower right wing was bent up.</p> <p>Postaccident investigation of the right brake revealed that its master brake cylinder had failed.</p>					
FACTUAL REPORT - AVIATION					

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		Occurrence Type: Accident				
Landing Facility/Approach Information						
Airport Name Doyle's Airfield		Airport ID: NONE	Airport Elevation 4081 Ft. MSL	Runway Used 180	Runway Length 2640	Runway Width 60
Runway Surface Type: Grass/turf						
Runway Surface Condition: Dry						
Type Instrument Approach: Unknown						
VFR Approach/Landing: Full Stop						
Aircraft Information						
Aircraft Manufacturer Grumman		Model/Series G-164A		Serial Number 1030		
Airworthiness Certificate(s): Restricted (Special)						
Landing Gear Type: Tailwheel						
Homebuilt Aircraft? No		Number of Seats: 1	Certified Max Gross Wt. 2500 LBS	Number of Engines: 1		
Engine Type: Reciprocating		Engine Manufacturer: Pratt & Whitney	Model/Series: R1340	Rated Power: 600 HP		
- Aircraft Inspection Information						
Type of Last Inspection Annual		Date of Last Inspection 07/2002	Time Since Last Inspection 5 Hours	Airframe Total Time 8152 Hours		
- Emergency Locator Transmitter (ELT) Information						
ELT Installed? Yes		ELT Operated? No	ELT Aided in Locating Accident Site? No			
Owner/Operator Information						
Registered Aircraft Owner Vic L. Doyle		Street Address				
		City Two Buttes	State CO	Zip Code 81084		
Operator of Aircraft Same as Reg'd Aircraft Owner		Street Address Same as Reg'd Aircraft Owner				
		City	State	Zip Code		
Operator Does Business As: Doyle's Ag Services				Operator Designator Code: V8DG		
- Type of U.S. Certificate(s) Held: None						
Air Carrier Operating Certificate(s):						
Operating Certificate:			Operator Certificate:			
Regulation Flight Conducted Under: Part 137: Agricultural						
Type of Flight Operation Conducted: Aerial Application						
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First Pilot Information																																																																																				
Name		City		State	Date of Birth																																																																															
On File		On File		On File	Age																																																																															
					36																																																																															
Sex: M	Seat Occupied: Center	Principal Profession: Civilian Pilot		Certificate Number: On File																																																																																
Certificate(s): Commercial																																																																																				
Airplane Rating(s): Single-engine Land																																																																																				
Rotorcraft/Glider/LTA: None																																																																																				
Instrument Rating(s): None																																																																																				
Instructor Rating(s): None																																																																																				
Type Rating/Endorsement for Accident/Incident Aircraft?			Current Biennial Flight Review? 07/2002																																																																																	
Medical Cert.: Class 2		Medical Cert. Status: Valid Medical--no waivers/lim.		Date of Last Medical Exam: 02/2002																																																																																
<table border="1"> <tr> <th rowspan="2">- Flight Time Matrix</th> <th rowspan="2">All A/C</th> <th rowspan="2">This Make and Model</th> <th rowspan="2">Airplane Single Engine</th> <th rowspan="2">Airplane Multi-Engine</th> <th rowspan="2">Night</th> <th colspan="2">Instrument</th> <th rowspan="2">Rotorcraft</th> <th rowspan="2">Glider</th> <th rowspan="2">Lighter Than Air</th> </tr> <tr> <th>Actual</th> <th>Simulated</th> </tr> <tr> <td>Total Time</td> <td>1700</td> <td>300</td> <td>1700</td> <td></td> <td>30</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Pilot In Command(PIC)</td> <td>1600</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Instructor</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Last 90 Days</td> <td>140</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Last 30 Days</td> <td>40</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Last 24 Hours</td> <td>4</td> <td>4</td> <td>4</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>						- Flight Time Matrix	All A/C	This Make and Model	Airplane Single Engine	Airplane Multi-Engine	Night	Instrument		Rotorcraft	Glider	Lighter Than Air	Actual	Simulated	Total Time	1700	300	1700		30						Pilot In Command(PIC)	1600										Instructor											Last 90 Days	140										Last 30 Days	40										Last 24 Hours	4	4	4							
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Seatbelt Used? Yes		Shoulder Harness Used? Yes		Toxicology Performed? No																																																																																
				Second Pilot?																																																																																
Flight Plan/Itinerary																																																																																				
Type of Flight Plan Filed: None																																																																																				
Departure Point		State	Airport Identifier	Departure Time	Time Zone																																																																															
Same as Accident/Incident Location			NONE	0715	MDT																																																																															
Destination		State	Airport Identifier																																																																																	
Local Flight																																																																																				
Type of Clearance: None																																																																																				
Type of Airspace: Class G																																																																																				
Weather Information																																																																																				
Source of Briefing: Unknown																																																																																				
Method of Briefing: Unknown																																																																																				

 National Transportation Safety Board FACTUAL REPORT AVIATION		NTSB ID: DEN02LA081			
		Occurrence Date: 07/24/2002			
		Occurrence Type: Accident			
Weather Information					
WOF ID	Observation Time	Time Zone	WOF Elevation	WOF Distance From Accident Site	Direction From Accident Site
SPD	0756	MDT	4387 Ft. MSL	11 NM	220 Deg. Mag.
Sky/Lowest Cloud Condition: Clear				Ft. AGL	Condition of Light: Day
Lowest Ceiling: None			Ft. AGL	Visibility: 10 SM	Altimeter: 30.20 "Hg
Temperature: 24 °C	Dew Point: 14 °C		Wind Direction: 190		Density Altitude: Ft.
Wind Speed: 10	Gusts:		Weather Conditions at Accident Site: Visual Conditions		
Visibility (RVR): Ft.	Visibility (RVV) SM		Intensity of Precipitation:		
Restrictions to Visibility: None					
Type of Precipitation: None					
Accident Information					
Aircraft Damage: Substantial		Aircraft Fire: None		Aircraft Explosion: None	
Classification: U.S. Registered/U.S. Soil					
- Injury Summary Matrix	Fatal	Serious	Minor	None	TOTAL
First Pilot				1	1
Second Pilot					
Student Pilot					
Flight Instructor					
Check Pilot					
Flight Engineer					
Cabin Attendants					
Other Crew					
Passengers					
- TOTAL ABOARD -				1	1
Other Ground					
- GRAND TOTAL -				1	1
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NTSB ID: DEN02LA081

Occurrence Date: 07/24/2002

Occurrence Type: Accident

Administrative Information

Investigator-In-Charge (IIC)

James F. Struhsaker

Additional Persons Participating in This Accident/Incident Investigation:

Jim Finn
Federal Aviation Administration
Denver, CO 80249